

**Claims**

1. (Currently Amended) Process for finishing- machining of bearing positions on main bearing journals and connecting rod bearing journals of crankshafts for motor car engines, whereby the crankshafts have rounding between the bearing positions and the transitions adjacent in each case to the bearing positions, such as for example cheeks of adapting bearings, ~~characterised in that~~ wherein
  - the roundings (4) are deep rolled with a deep rolling tool and then, maintaining a distance interval (17) to the individual transition (7) in each case,
  - the bearing position (11)-concerned is machined with removal of material with a small cutting depth (18, 20)-
2. (Currently Amended) Process according to Claim 1, ~~characterised in that~~ wherein  
the rolling-in depth (13)-at the deep rolling of the roundings (14) is between 0.1 and 0.5 mm, preferably 0.2 mm.
3. (Currently Amended) Process according to Claim 1 ~~Claims 1 and 2~~, ~~characterised in that~~ wherein  
the cutting depth (18, 20) during the final material-removing machining of the bearing positions (11) amounts to between 0.1 and 0.5 mm, preferably 0.25 mm.
4. (Currently Amended) Process according to Claim 3, ~~characterised in that~~ wherein  
machining with removal of material is carried out with unspecified cutting edge by grinding.

5. (Currently Amended) Process according to Claim 4, ~~characterised in that~~  
wherein  
machining is carried out with a grinding wheel which had an edge radius of up to 1 mm, preferably 0.5 mm.
6. (Currently Amended) Process according to Claim 3, ~~characterised in that~~  
wherein  
working with removal of material takes place with specific cutting edge by milling, turning, broaching, turn-broaching, or turn-turn-broaching.
7. (Currently Amended) Process according to Claim 1 ~~any one of Claims 1 to 6,~~  
~~characterised in that~~  
wherein  
the distance interval ~~(17)~~ between the cheek ~~(7)~~ and the bearing position ~~(11)~~ in each case is between 0.5 and 5 mm, preferably 1 mm.
8. (Currently Amended) Crankshaft ~~(1)~~ with main bearing journals ~~(2)~~ and connecting rod bearing journals ~~(3)~~, of which the bearing positions ~~(11)~~ were finish-machined in accordance with Claim 1 ~~one of Claims 1 to 7,~~  
~~characterised in that~~  
wherein  
it has tangent radii ~~(15)~~ between the transition areas ~~(14)~~ and the individual bearing positions ~~(11)~~ in each case.